```
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    ***to STN.***

    ***Take survey: http://www.zoomerang.com/survey.zgi?p=WEB2259HNKWTUW ***

    ***Thank you in advance for your participation.***

* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:17:53 ON 05 MAY 2006

=> file reg
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

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  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
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Structure search iteration limits have been increased.  See HELP SLIMITS
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experimental property data in the original document.  For information
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http://www.cas.org/ONLINE/UG/regprops.html

=> s hydroxyethyl sarcosine
        280115 HYDROXYETHYL
          1486 SARCOSINE
L1           1 HYDROXYETHYL SARCOSINE
                 (HYDROXYETHYL(W)SARCOSINE)

=> file caplus
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       9.96      10.17
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$%^STN;HighlightOn=  ***;HighlightOff=***  ;

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LOGINID:ssspta1756mja

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TERMINAL (ENTER 1, 2, 3, OR ?):2


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 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  DEC 23   New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
                   USPAT2
 NEWS  4  JAN 13   IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
 NEWS  5  JAN 13   New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
                   INPADOC
 NEWS  6  JAN 17   Pre-1988 INPI data added to MARPAT
 NEWS  7  JAN 17   IPC 8 in the WPI family of databases including WPIFV
 NEWS  8  JAN 30   Saved answer limit increased
 NEWS  9  FEB 21   STN AnaVist, Version 1.1, lets you share your STN AnaVist
                   visualization results
 NEWS 10  FEB 22   The IPC thesaurus added to additional patent databases on STN
 NEWS 11  FEB 22   Updates in EPFULL; IPC 8 enhancements added
 NEWS 12  FEB 27   New STN AnaVist pricing effective March 1, 2006
 NEWS 13  FEB 28   MEDLINE/LMEDLINE reload improves functionality
 NEWS 14  FEB 28   TOXCENTER reloaded with enhancements
 NEWS 15  FEB 28   REGISTRY/ZREGISTRY enhanced with more experimental spectral
                   property data
 NEWS 16  MAR 01   INSPEC reloaded and enhanced
 NEWS 17  MAR 03   Updates in PATDPA; addition of IPC 8 data without attributes
 NEWS 18  MAR 08   X.25 communication option no longer available after June 2006
 NEWS 19  MAR 22   EMBASE is now updated on a daily basis
 NEWS 20  APR 03   New IPC 8 fields and IPC thesaurus added to PATDPAFULL
 NEWS 21  APR 03   Bibliographic data updates resume; new IPC 8 fields and IPC
                   thesaurus added in PCTFULL
 NEWS 22  APR 04   STN AnaVist $500 visualization usage credit offered
 NEWS 23  APR 12   LINSPEC, learning database for INSPEC, reloaded and enhanced
 NEWS 24  APR 12   Improved structure highlighting in FQHIT and QHIT display
                   in MARPAT
 NEWS 25  APR 12   Derwent World Patents Index to be reloaded and enhanced during
                   second quarter; strategies may be affected

 NEWS EXPRESS  FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
               CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
               V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
               http://download.cas.org/express/v8.0-Discover/

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    ***COMPLETE THE STN SURVEY - APRIL 27 THROUGH MAY 31***
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FILE COVERS 1907 - 5 May 2006 VOL 144 ISS 20
FILE LAST UPDATED: 4 May 2006 (20060504/ED)

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http://www.cas.org/infopolicy.html

```
=> s l1 and metal?
            16 L1
       2394816 METAL?
L2           5 L1 AND METAL?

=> d all 1-5
```

L2 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1988:167544 CAPLUS
DN 108:167544
ED Entered STN: 13 May 1988
TI Asymmetric synthesis of new bicyclic phenylboronic esters containing configurationally stable chiral nitrogen and boron
AU Mancilla, Teresa; Contreras, Rosalinda
CS Cent. Invest. Estud. Avanzados, IPN, Mexico City, 07000, Mex.
SO Journal of Organometallic Chemistry (1987), 321(2), 191-8
CODEN: JORCAI; ISSN: 0022-328X
DT Journal
LA English
CC 29-4 (Organometallic and Organometalloidal Compounds)
OS CASREACT 108:167544
GI

/ Structure 1 in file .gra /

AB The reaction between phenylboronic acid and N-alkyl-N-(ethyl-2-hydroxy)aminoacetic acids leads stereoselectively to stable bicyclic esters I (R = H, Me, R1 = Me, CHMe2, R2, R3 = H, Ph) contg. chiral boron and nitrogen atoms.
ST phenylboronic acid cyclocondensation aminoacetic acid; bicyclic phenylboronic ester prepn stereochem; mol structure bicyclic phenylboronic ester NMR
IT Stereochemistry
(of cyclocondensation of phenylboronic acid with chiral (hydroxyethyl)aminoacetic acid)
IT Cyclocondensation reaction
(of phenylboronic acid with chiral (hydroxyethyl)aminoacetic acid, bicyclic phenylboronic ester from)
IT Heterocyclic compounds
RL: RCT (Reactant); RACT (Reactant or reagent)
(***metallo*** -, bicyclic phenylboronic ester)
IT 98-80-6, Phenylboronic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation reaction of, with (hydroxyethyl)aminoacetic acid, bicyclic phenylboronic ester from)

IT ***26294-19-9*** 112475-70-4 112475-71-5 112531-70-1 112531-71-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation reaction of, with phenylboronic acid, by cyclic phenylboronic ester from)
IT 112475-72-6P 112475-73-7P 112475-74-8P 112490-45-6P 112490-46-7P
112490-47-8P 112531-72-3P 112571-76-3P 112571-82-1P 112571-83-2P
112571-84-3P 112571-85-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

L2 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1984:446337 CAPLUS
DN 101:46337
ED Entered STN: 04 Aug 1984
TI Thermographic copying paper
PA Pentel Co., Ltd., Japan
SO Jpn. Tokkyo Koho, 3 pp.
CODEN: JAXXAD
DT Patent
LA Japanese
IC B41M005-18
CC 74-7 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58008357	B4	19830215	JP 1975-11719	19750128
PRAI JP 1975-11719		19750128		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 58008357	IC	B41M005-18
	IPCI	B41M0005-18

GI

/ Structure 2 in file .gra /

AB A thermog. copying paper is obtained by coating a transparent or semitransparent support with a 1-amino-3-iminoisoindolenine deriv. I [R, R1 = H, halo, alkoxy, alkyl; X = acid (may be absent)] together with a ***metal*** salt of an org. acid or a ***metal*** complex to form a heat-sensitive layer.
ST thermog aminoiminoisoindolenine; isoindoline aminoimino thermog
IT Thermography
(heat-sensitive materials for, contg. aminoiminoisoindolenine deriv.)
IT Vinyl acetal polymers
RL: USES (Uses)
(butyrals, thermog. copying compns. contg.)
IT 50-81-7, uses and miscellaneous 57-13-6, uses and miscellaneous 110-80-5 123-31-9, uses and miscellaneous 141-43-5D, cobalt complexes 3468-11-9 7440-48-4D, aminoethanol complexes 7440-50-8D, (hydroxyethyl)methylglycine complexes 9002-89-5 9004-57-3 13479-55-5 ***26294-19-9D*** , copper complexes 80419-19-8 90704-37-3
RL: USES (Uses)
(thermog. copying compns. contg.)

L2 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1974:72015 CAPLUS
DN 80:72015
ED Entered STN: 12 May 1984
TI Dyeing of fibrous substance
IN Inagaki, Shoji; Takagi, Kunihiko
PA Dainippon Ink and Chemicals, Inc.
SO Jpn. Tokkyo Koho, 3 pp.
CODEN: JAXXAD
DT Patent
LA Japanese
IC D06P; C09B
CC 39-7 (Textiles)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 48006428	B4	19730226	JP 1969-84680	19691024

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 48006428	IC	D06P; C09B
	IPCI	D06P; C09B

AB Textiles were dyed yellow and green shades by treatment with 3-iminoisoindolenines (I, X = H,MeO,or halogen; Y = alkoxy, amino, or hydroxyethyl) contg. reactive groups in the 1-position and an aromatic primary amine capable of bonding the reactive group and heating in the presence or absence of a ***metal*** compd. capable of coordinate-bonding the phthalocyanine nucleus. Thus, 32 ml soln. prepd. from 50 g 1-amino-3-iminoisoindolenine, 8.0 g polyethylene glycol nonylphenyl ether, 24.0 g formamide, and 130 ml H2O was mixed with a soln. of 0.4 g o-tolidine in 40 ml MeOH and a soln. of 0.45 g Cu 2-hydroxyethylsarcosine in 100 ml H2O contg. a small amt. of NH3. Cotton fabric pretreated with water was immersed in the soln., squeezed to 80-85% soln. pick-up, dried 7 min at 70-80.deg., heated 5 min at 140-5.deg., boiled, washed, dried, and pressed.

ST dyeing cotton textile iminoisoindolenine; indolenine deriv dyeing textile; phthalocyanine dyeing cotton textile

IT Amines, uses and miscellaneous
RL: USES (Uses)
(arom., cotton textile dyeing in presence of, contg. iminoisoindolenines and ***metal*** compds.)

IT Dyeing
(of cotton textiles, by arom. primary amines, iminoisoindolenines and ***metal*** compds.)

IT 7440-50-8D, Copper, complexes with 2-hydroxyethyl sarcosine ***26294-19-9D*** , Glycine, N-(2-hydroxyethyl)-N-methyl-, copper complexes
RL: USES (Uses)
(cotton textile dyeing in presence of, contg. arom. primary amines and iminoisoindolenine)

IT 3468-11-9
RL: USES (Uses)
(cotton textile dyeing in presence of, contg. arom. primary amines and ***metal*** compds.)

IT 119-93-7
RL: USES (Uses)
(cotton textile dyeing in presence of, contg. iminoisoindolenines and ***metal*** compds.)

L2 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1973:466815 CAPLUS
DN 79:66815
ED Entered STN: 12 May 1984
TI Physicochemical study of some hydroxyamino acids and their chelates with transition cations
AU Frezou, Claude; Vieles, Pierre; Galsomias, Jacqueline; Bonniol, Alain
CS Lab. Chim. Gen., Univ. II Montpellier, Montpellier, Fr.
SO Journal de Chimie Physique et de Physico-Chimie Biologique (1973), 70(5), 861-3
CODEN: JCPBAN; ISSN: 0021-7689
DT Journal
LA French
CC 34-2 (Synthesis of Amino Acids, Peptides, and Proteins)
AB A comparative potentiometric study was made of 4 amino acids, (HOCH2)-, CNHCHRCO2H and HOCH2CH2NMeCHRCO2H (R = H, Me), in chelation with several transition ***metals*** ; acidity consts. and formation consts. were measured at 0.1 ionic strength. All compds. were isolated in the solid state and their ir spectra were examd.

ST acid hydroxyamino chelation; amino acid hydroxy chelation

IT Transition ***metals*** , compounds
RL: RCT (Reactant); RACT (Reactant or reagent)
(chelates with hydroxyamino acids, formation consts. for)

IT Formation constant and Stability constant
(of hydroxyamino acid transition ***metal*** complexes)

IT Ionization in liquids
(of hydroxyamino acids and their transition ***metal*** complexes)

IT Chelation
(of hydroxyamino acids with transition ***metals*** , formation consts. for)
IT 14701-22-5, reactions 15158-11-9, reactions 16065-83-1, reactions 22541-53-3, reactions 23713-49-7, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(chelation of, with hydroxyamino acids, formation consts. for)
IT 5704-04-1 ***26294-19-9*** 29391-69-3 38254-59-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(chelation of, with transition ***metals*** , acidity consts. and formation consts. for)

L2 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1962:17316 CAPLUS
DN 56:17316
OREF 56:3224a-d
ED Entered STN: 22 Apr 2001
TI Chemical plating of copper on ***metallic*** surfaces
IN Lukes, Robert M.
DT Patent
LA English
CC 20 (Ferrous Metals and Alloys)

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2996408		19610815	US 1958-725452	19580331

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2996408	IPCR	C23C0018-31 [I,C]; C23C0018-40 [I,A]
	NCL	427/304.000; 106/001.260; 205/167.000

AB Bright, adherent Cu coatings up to at least 4 mils thick are formed on catalytic ***metallic*** surfaces by immersion in an aq. soln. of pH 10-14 and contg. HCHO and a Cu++ complex of an alkanolaminoacetic acid at 15-35.degree.. The plating rate is 0.05-1.0 mil/hr. A wetting agent is desirable. Surfaces on which such deposits are formed include Cu, Ni, and their alloys, Fe, steel, Ag, and noble ***metals*** . Nonmetallic surfaces are first roughened and then flash-coated with a sensitizing film by some method such as treatment with an acid SnCl2 soln. followed by a soln. of a Pd or Ag salt. The Cu may be added to the plating soln. as CuSO4 or other cupric salt, the molar concn. of Cu being preferably 0.05-0.2, and at least 0.2 mole HCHO should be present per 0.1 mole Cu. NaOH is the preferred base, and the complexing agent is preferably the Na salt of an acid having the formula RpN(CH2CO2H)n[CH2CH(R')OH]m, where m is 1-2, p is 0-1, R is a hydrocarbon radical having 1-10 C atoms or CH2CH2N(CH2CO2H)[CH2CH(R')OH], and R' is H or Me. This agent, which prevents pptn. of Cu by OH, but not its redn. to ***metal*** , must be present in a sufficient amt. to provide at least 2 alkanolaminoacetic acid groups per mole Cu. H is evolved in the redn. by HCHO and the wetting agent minimizes its interference with uniformity of the coating. A suitable soln. was 0.1M in CuSO4, 0.8M in NaOH, 0.3M in HCHO, and 0.2M in N,N-bis(2-hydroxyethyl)glycine, Cf. CA 53, 9996b.
IT Coating(s)
(of ***metals*** , with Cu from solns. contg. HCHO and Cu complex of alkanolaminoacetic acid)
IT 7440-02-0, Nickel
(coating of, with Cu from solns. contg. HCHO and Cu complex of ethanolaminoacetic acid)
IT 7440-50-8, Copper
(coating with, on ***metals*** in soln. contg. HCHO and Cu complex of alkanolaminoacetic acid)
IT 150-39-0, Glycine, N-(carboxymethyl)-N'-(2-hydroxyethyl)-N,-N'-ethylenedi-
(in copper plating solns)
IT 150-25-4, Glycine, N,N-bis(2-hydroxyethyl)- ***26294-19-9*** , Sarcosine, N-(2-hydroxyethyl)-
(in copper plating solns.)
IT 56-40-6, Glycine
(N-(hydroxyalkyl) derivs., in Cu plating solns.)

=> d his

(FILE 'HOME' ENTERED AT 09:17:53 ON 05 MAY 2006)

FILE 'REGISTRY' ENTERED AT 09:17:58 ON 05 MAY 2006
L1 1 S HYDROXYETHYL SARCOSINE

FILE 'CAPLUS' ENTERED AT 09:18:22 ON 05 MAY 2006
L2 5 S L1 AND METAL?

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.76	27.93

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.75	-3.75

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$%^STN;HighlightOn=  ***;HighlightOff=***  ;

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LOGINID:ssspta1756mja

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


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    ***COMPLETE THE STN SURVEY - APRIL 27 THROUGH MAY 31***
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    ***Dear valued STN customer,***

    ***In an effort to enhance your experience with STN, we would***
    ***like to better understand what you find useful.  Please take***
    ***approximately 5 minutes to complete a web survey.***

    ***If you provide us with your name, login ID, and e-mail address, you***
    ***will be entered in a drawing to win a free iPod(R).  Your responses***
    ***will be kept confidential and will help us make future improvements***
    ***to STN.***

    ***Take survey: http://www.zoomerang.com/survey.zgi?p=WEB2259HNKWTUW ***

    ***Thank you in advance for your participation.***

* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:00:23 ON 05 MAY 2006

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COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

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STRUCTURE FILE UPDATES:    4 MAY 2006  HIGHEST RN 882974-03-0
DICTIONARY FILE UPDATES:   4 MAY 2006  HIGHEST RN 882974-03-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> s ethyl aceate butyrate
       7320691 ETHYL
            13 ETHYLS
       7320691 ETHYL
                 (ETHYL OR ETHYLS)
             3 ACEATE
          8036 BUTYRATE
             3 BUTYRATES
          8036 BUTYRATE
                 (BUTYRATE OR BUTYRATES)
```

```
L1            0 ETHYL ACEATE BUTYRATE
                (ETHYL(W)ACEATE(W)BUTYRATE)

=> s ethyl acetate butyrate
      7320691 ETHYL
           13 ETHYLS
      7320691 ETHYL
                (ETHYL OR ETHYLS)
       522411 ACETATE
          451 ACETATES
       522411 ACETATE
                (ACETATE OR ACETATES)
         8036 BUTYRATE
            3 BUTYRATES
         8036 BUTYRATE
                (BUTYRATE OR BUTYRATES)
L2            0 ETHYL ACETATE BUTYRATE
                (ETHYL(W)ACETATE(W)BUTYRATE)

=> d his

     (FILE 'HOME' ENTERED AT 14:00:23 ON 05 MAY 2006)

     FILE 'REGISTRY' ENTERED AT 14:00:29 ON 05 MAY 2006
L1             0 S ETHYL ACEATE BUTYRATE
L2             0 S ETHYL ACETATE BUTYRATE

=> log y
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               29.00      29.21

STN INTERNATIONAL LOGOFF AT 14:00:56 ON 05 MAY 2006
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